

## Appendix 3. Graphs Showing Replicate-Paired Data and Variability Models

Graphs showing replicate-paired data and variability models of selected constituents measured for in water samples collected from wells in the Idaho National Laboratory water-quality aquifer monitoring network, 1989–2018.

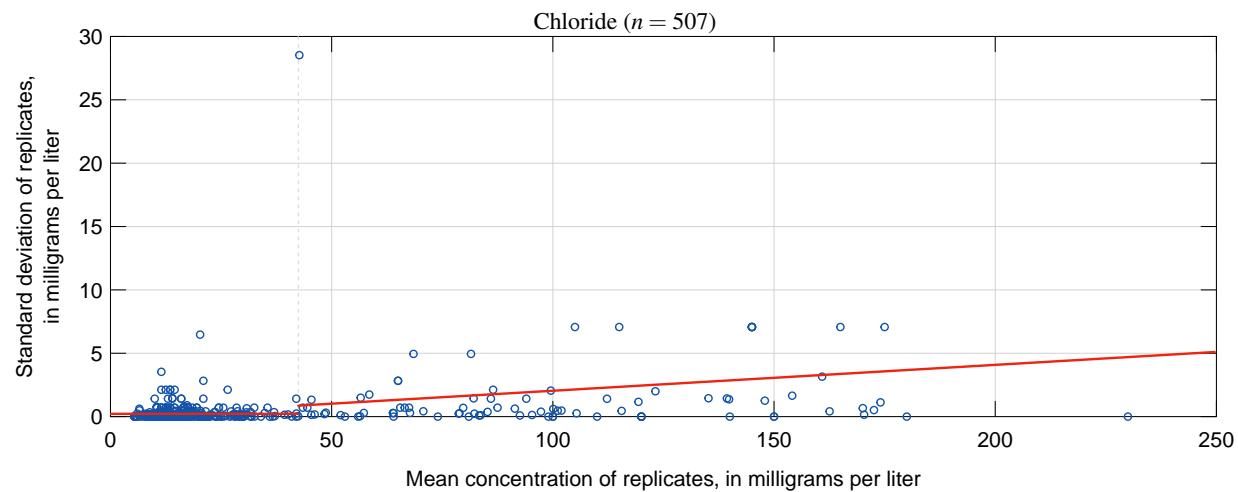
### EXPLANATION

- Replicate pair
- Variability model

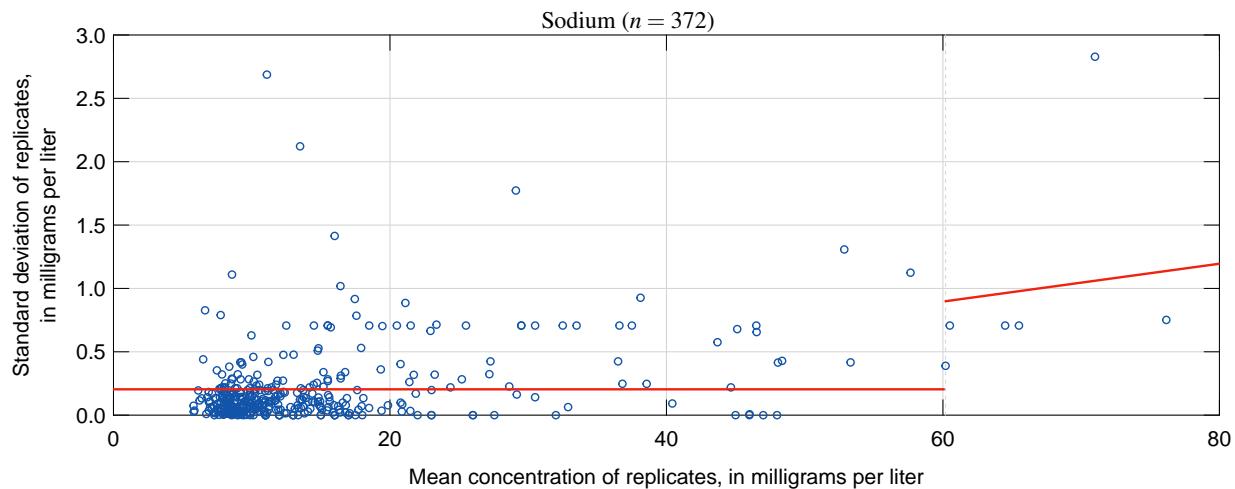
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### Figures

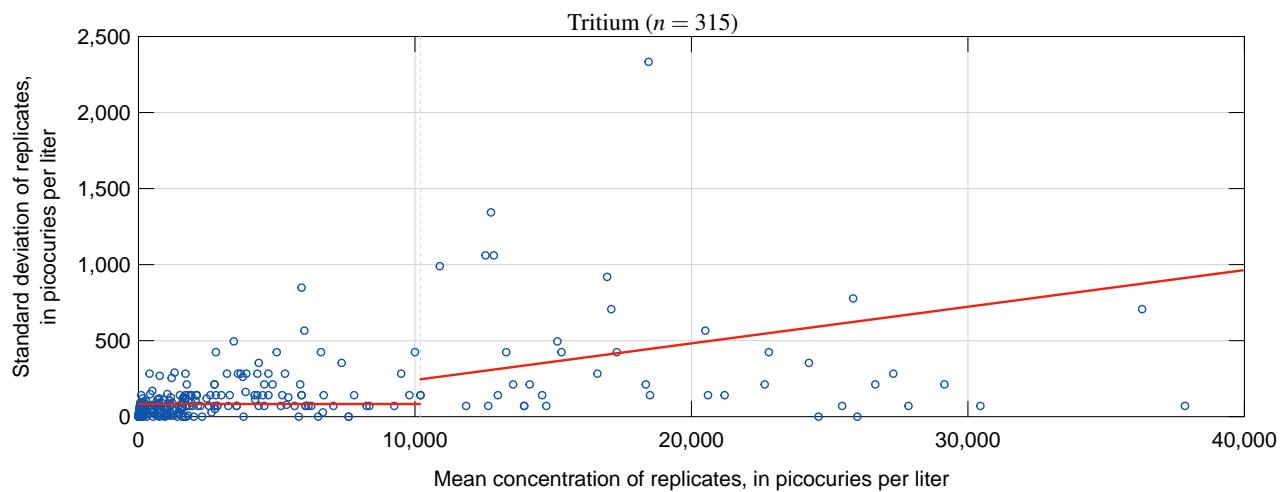
3.1. Chloride.....	3
3.2. Sodium .....	3
3.3. Tritium .....	3
3.4. Cesium-137 .....	4
3.5. Nitrate .....	4
3.6. Sulfate .....	4
3.7. Fluoride .....	5
3.8. Chromium .....	5
3.9. Carbon tetrachloride .....	5
3.10. Chloroform.....	6
3.11. Toluene.....	6
3.12. Tetrachloroethylene .....	6
3.13. 1,1-Dichloroethylene .....	7
3.14. 1,1,1-Trichloroethane.....	7
3.15. CFC-12.....	7
3.16. Trichloroethylene .....	8
3.17. Strontium-90.....	8
3.18. Plutonium-238.....	8
3.19. Alpha particle.....	9
3.20. Beta particle.....	9



**Figure 3.1.** Replicate data and variability model for chloride.

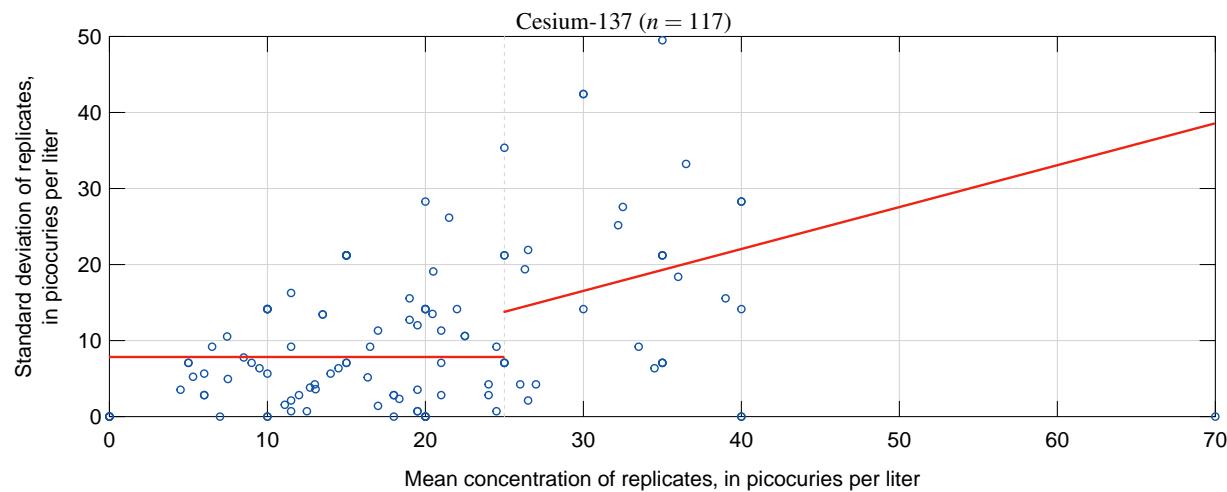


**Figure 3.2.** Replicate data and variability model for sodium.

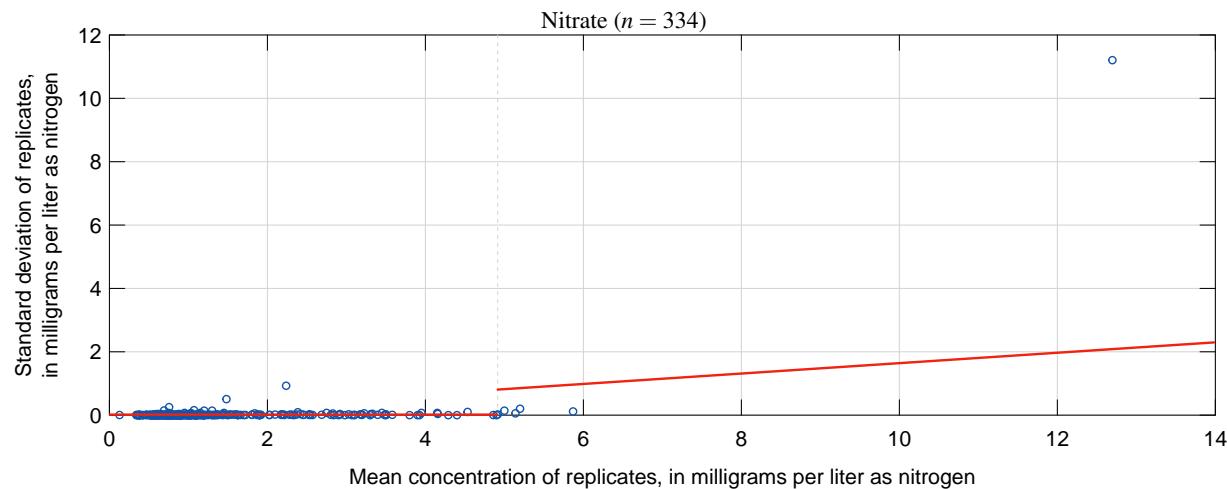


**Figure 3.3.** Replicate data and variability model for tritium.

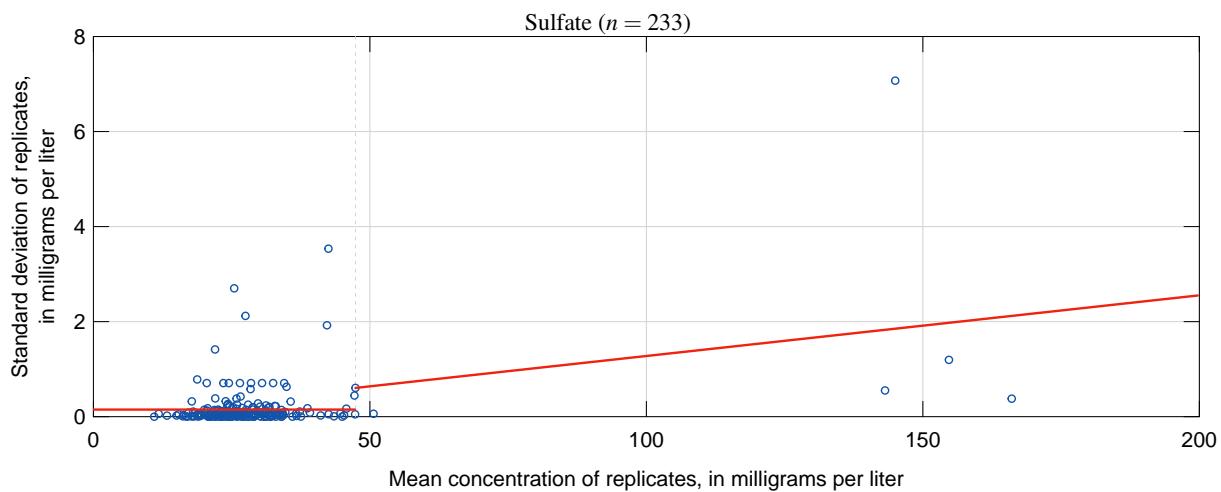
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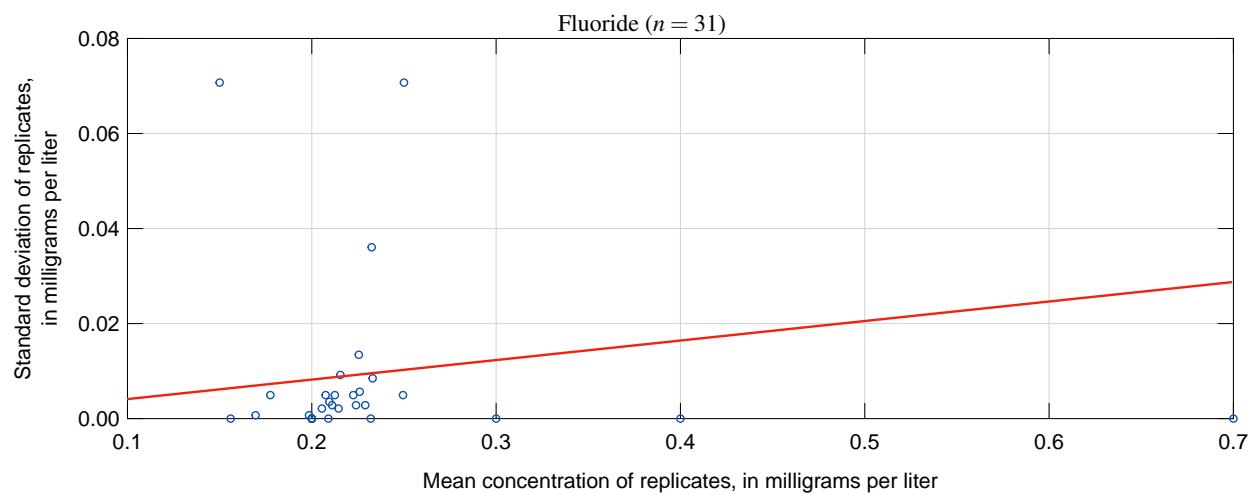
**Figure 3.4.** Replicate data and variability model for cesium-137.



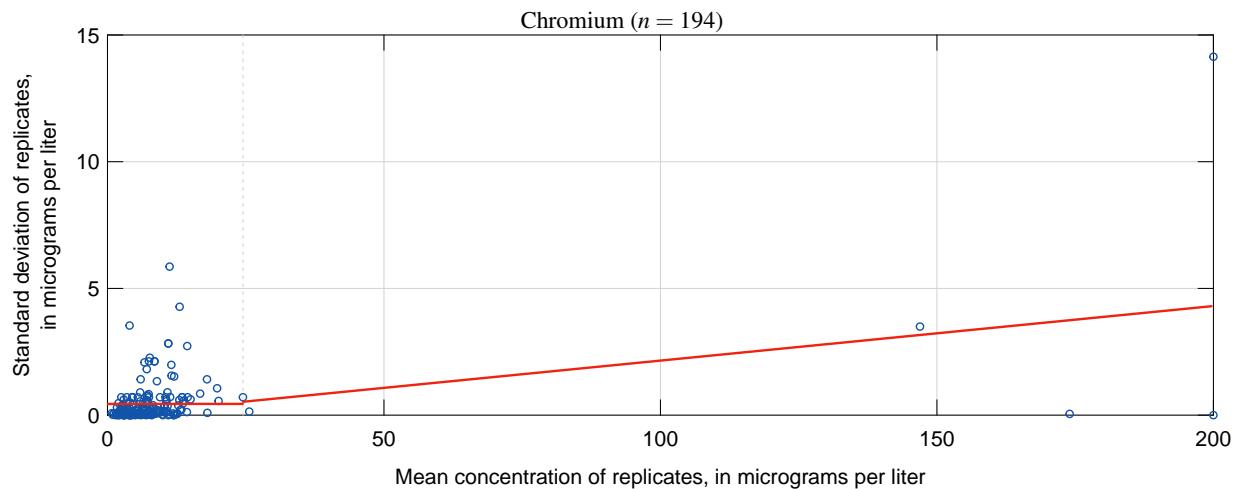
**Figure 3.5.** Replicate data and variability model for nitrate.



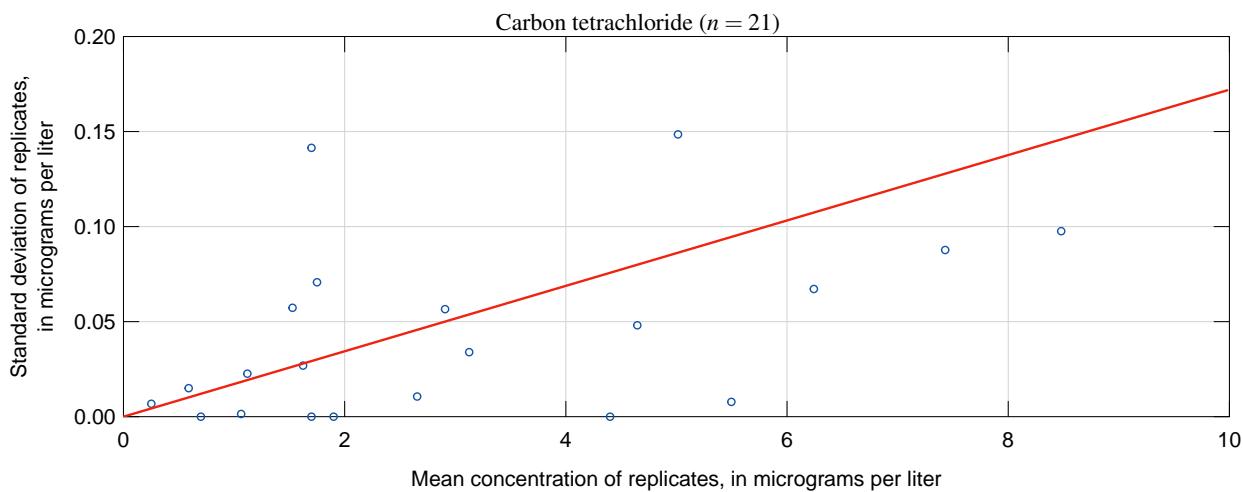
**Figure 3.6.** Replicate data and variability model for sulfate.



**Figure 3.7.** Replicate data and variability model for fluoride.

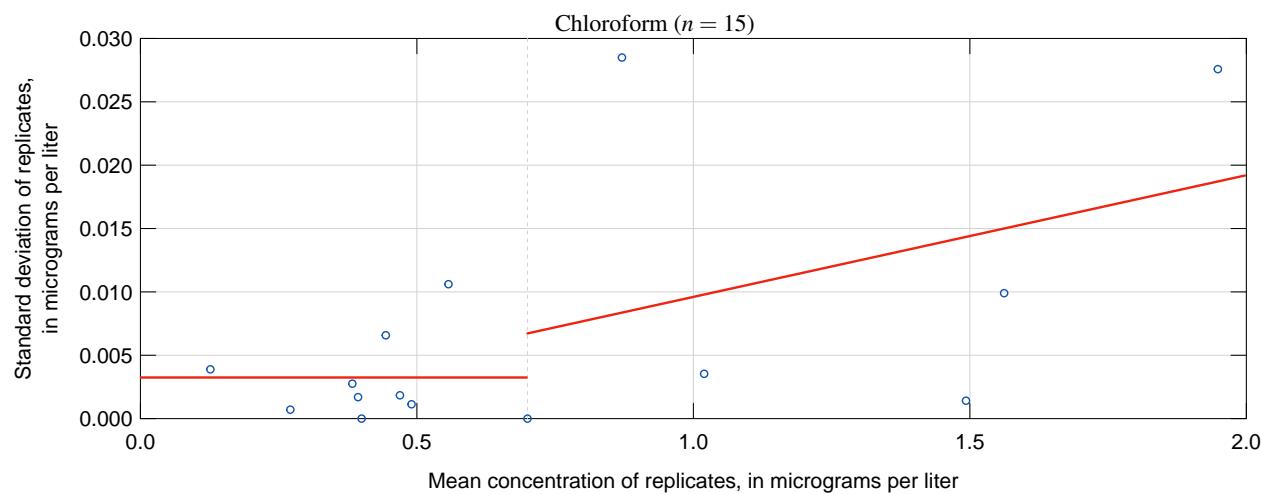


**Figure 3.8.** Replicate data and variability model for chromium.

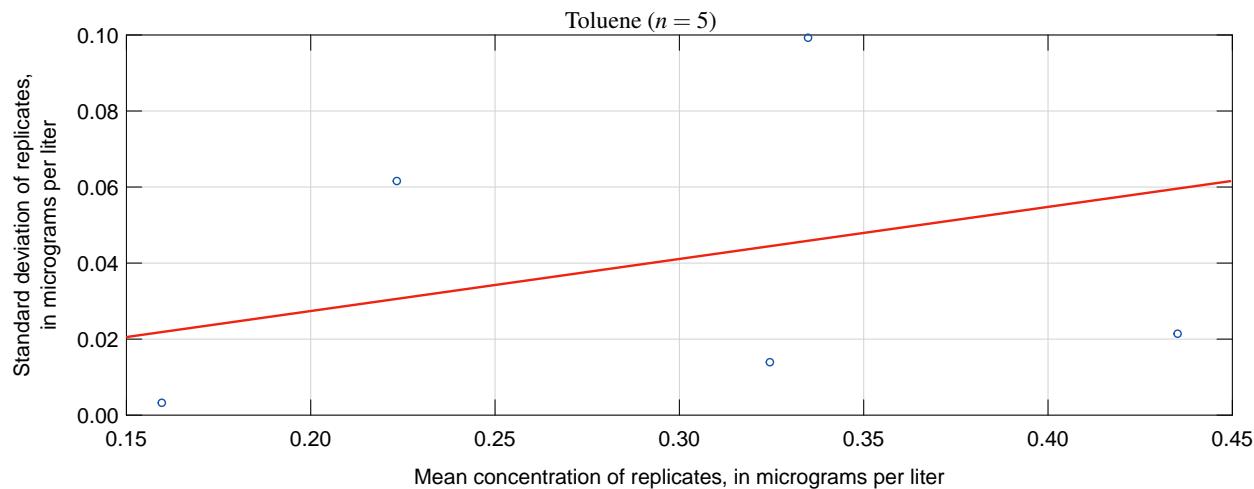


**Figure 3.9.** Replicate data and variability model for carbon tetrachloride.

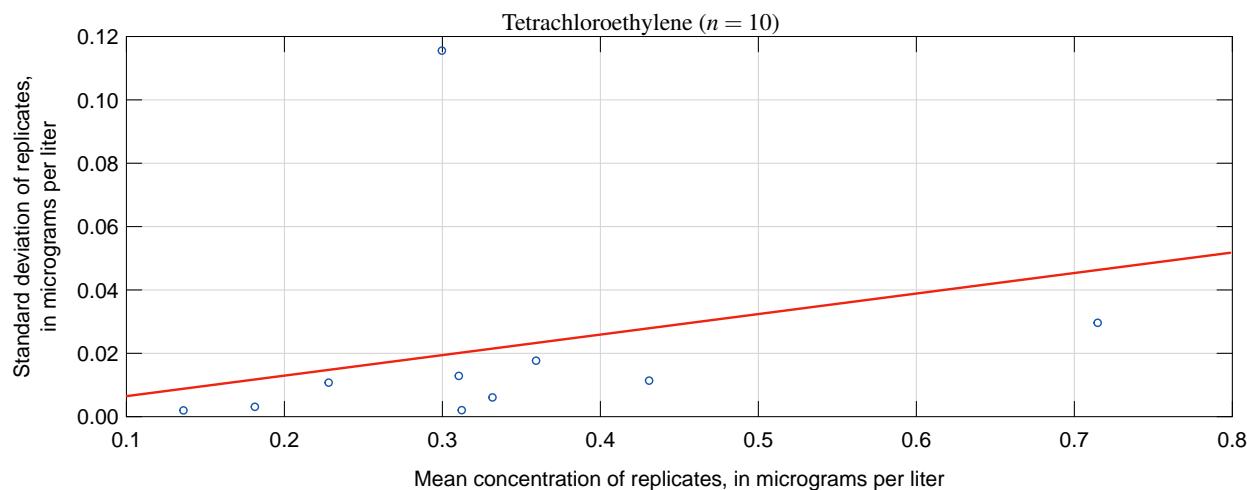
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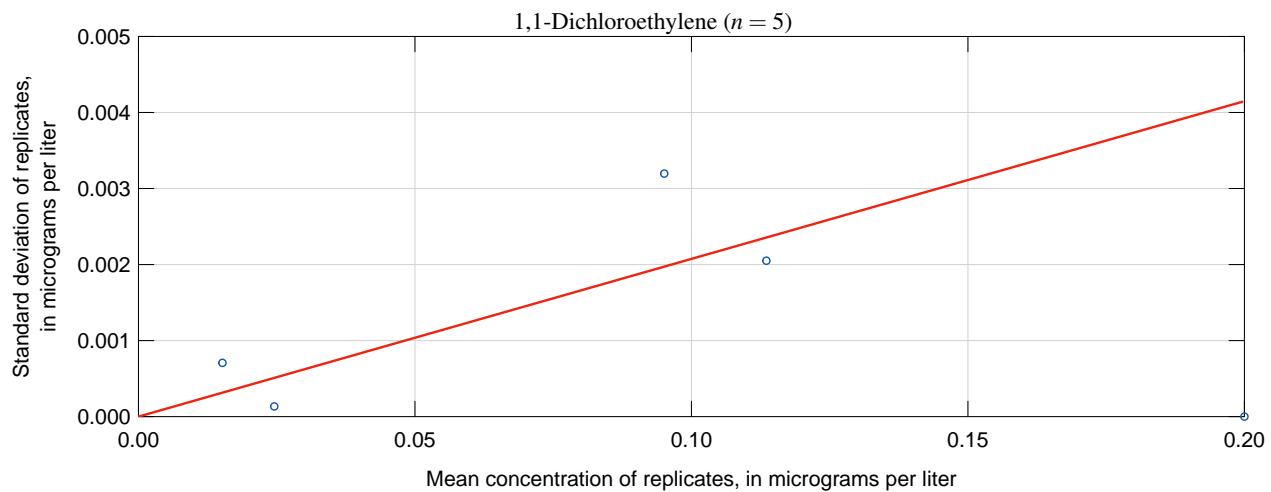
**Figure 3.10.** Replicate data and variability model for chloroform.



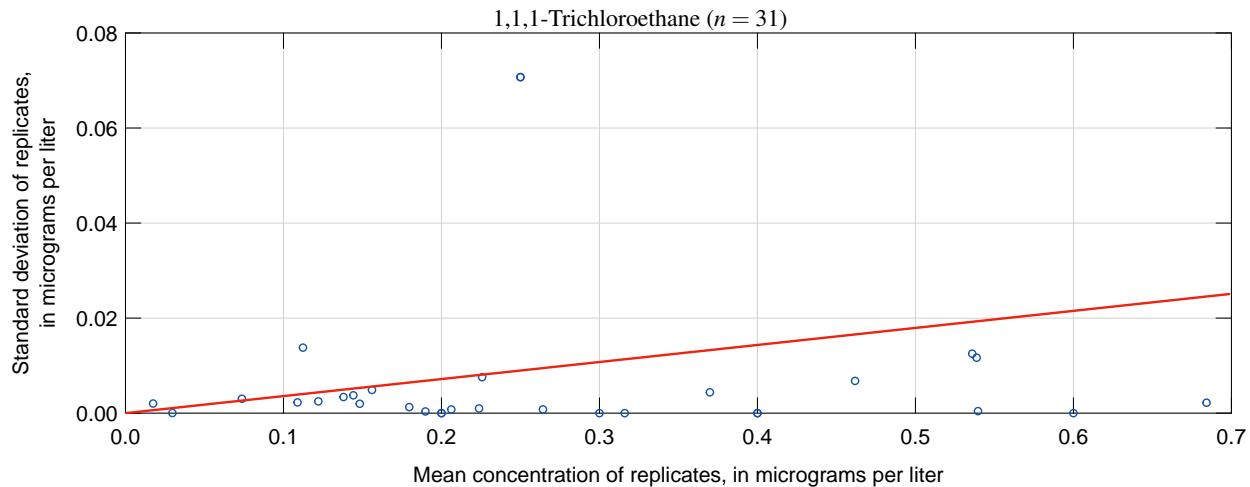
**Figure 3.11.** Replicate data and variability model for toluene.



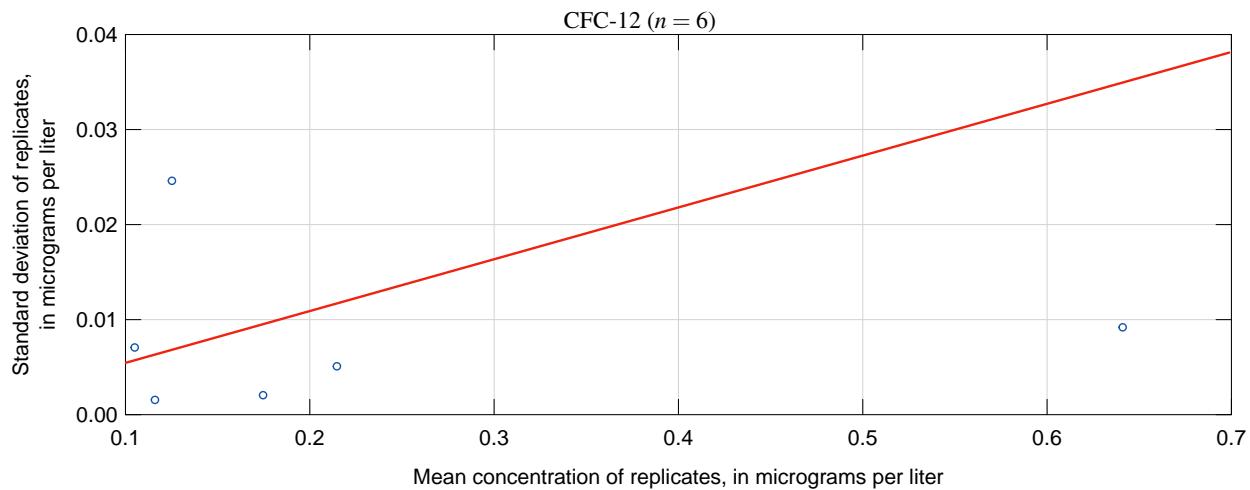
**Figure 3.12.** Replicate data and variability model for tetrachloroethylene.



**Figure 3.13.** Replicate data and variability model for 1,1-dichloroethylene.

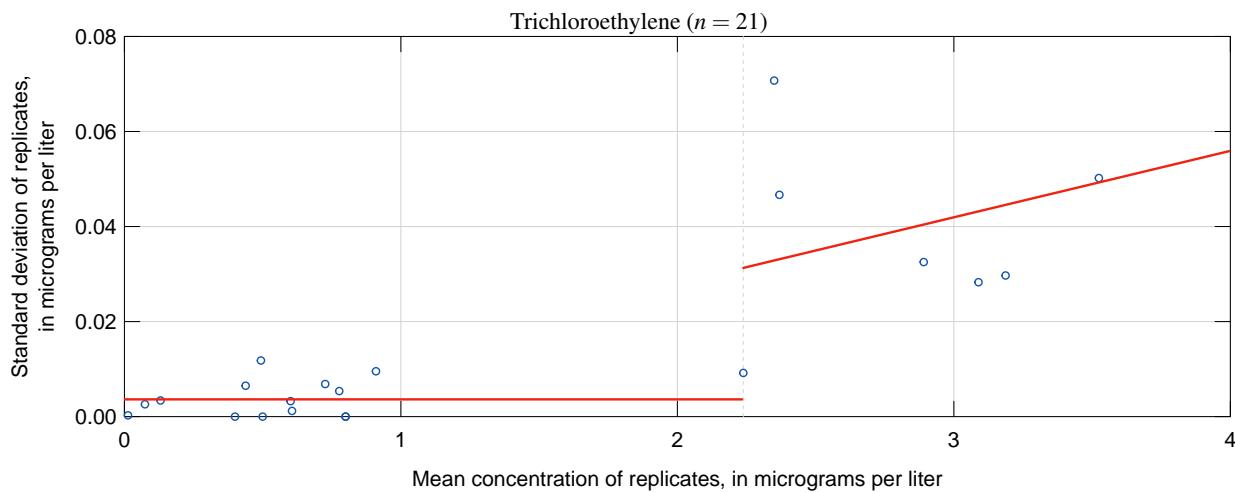


**Figure 3.14.** Replicate data and variability model for 1,1,1-trichloroethane.

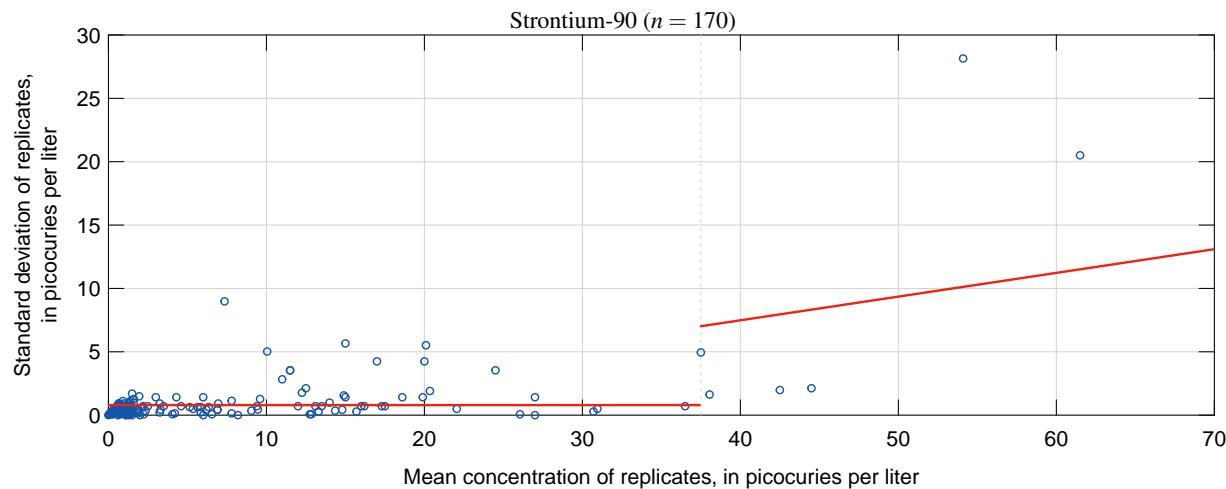


**Figure 3.15.** Replicate data and variability model for cfc-12.

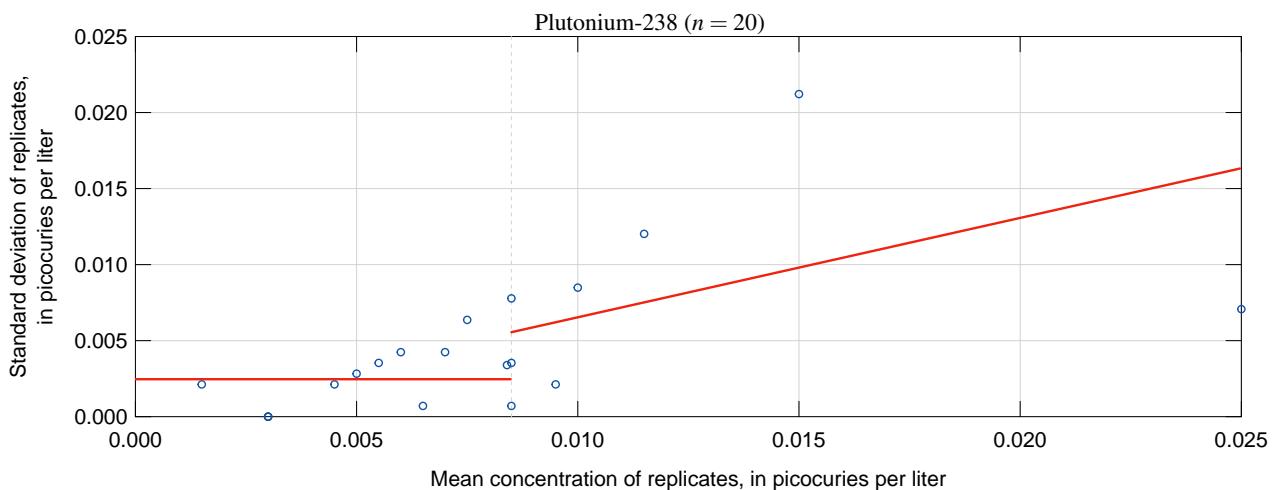
## 8 Optimization of the Idaho National Laboratory Water-Quality Aquifer Monitoring Network



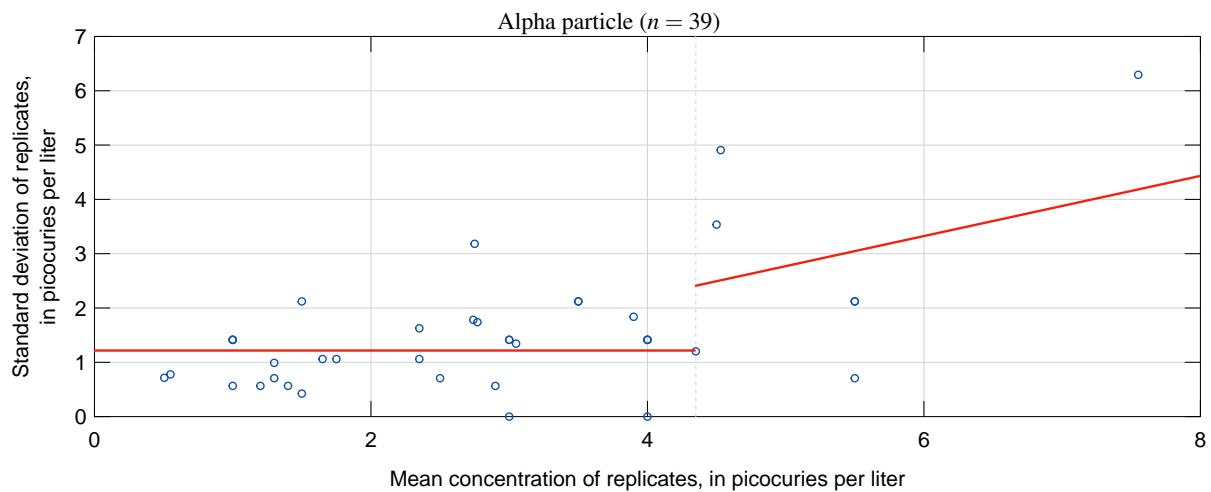
**Figure 3.16.** Replicate data and variability model for trichloroethylene.



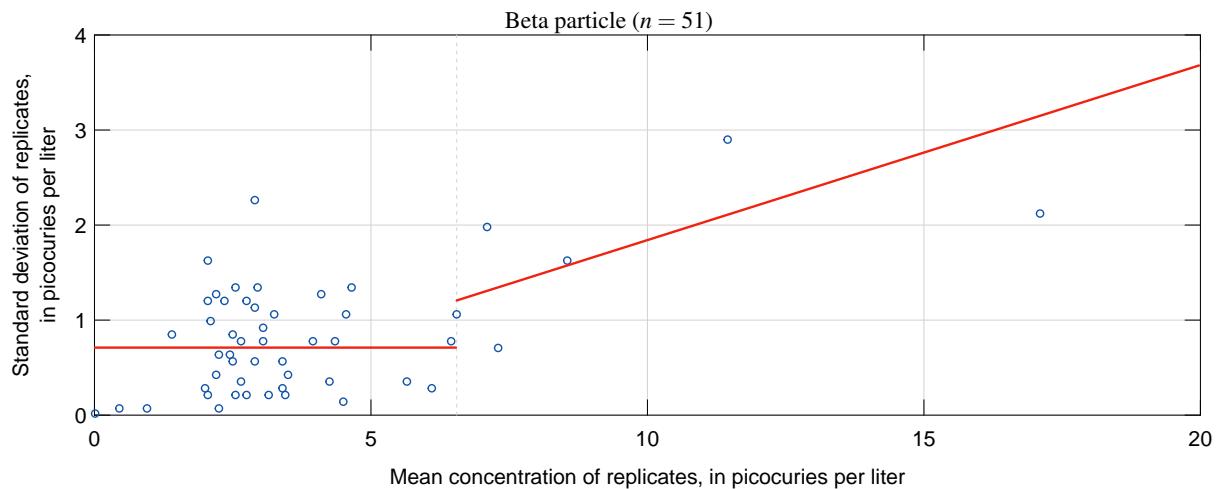
**Figure 3.17.** Replicate data and variability model for strontium-90.



**Figure 3.18.** Replicate data and variability model for plutonium-238.



**Figure 3.19.** Replicate data and variability model for alpha particle.



**Figure 3.20.** Replicate data and variability model for beta particle.